The Condor 101:937–950
© The Cooper Ornithological Society 1999

INDEX FOR VOLUME 101

A

Abraham, Christine L., and Roger M. Evans, The Development of Endothermy in American White Pelicans, 832
Acadian Flycatcher, 916, 920
Accipiter cooperii, 674
striatus, 674
Acrocephalus schoenobaenus, 153
Activity, 390
Activity Patterns of Nesting Mexican Spotted Owls, by David K. Delaney, Teryl G. Grubb and Paul Beier, 42
Adams, L. G., see McIntyre, C. L., 115
Adaptation to intensive farmland, 806
Adult Survival of the Black Guillemot in Iceland, by Morten Frederiksen and Aevar Petersen, 589
Aegithalos caudatus, 681
Aethia cristatella, 518
pusilla, 518
pygmaea, 518
Age difference, 689
Agelaius phoeniceus, 1, 729
Aggression, 390, 737, 842
Agriculture, 667
Ainley, D. G., see Spear, L. B., 205
Alaemon alaudipes, 714
Alaska, 115
Alaska Peninsula, 694
Alcidae, 518
Aleixo, Alexandre, Effects of Selective Logging on a Bird Community in the Brazilian Atlantic Forest, 537
Allometry, 710
Altricial, 832
Amat, Juan A., Rosendo M. Fraga and Gonzalo M. Arroyo, Replacement Clutches by Kentish Plovers, 746
Amat, Juan A., Rosendo M. Fraga and Gonzalo M. Arroyo, Reuse of Nesting Scrapes by Kentish Plovers, 157
Amazon, 529
American Avocet, 645
Coot, 893
Kestrels, 616
Tree Sparrow, 195
Wigeon, 422
Ammer, Frank K., and Michael S. Capp, Song Versatility and Social Context in the Bobolink, 686
Anas, 422
Anas acuta, 369
clypeata, 417
platyrhynchos, 710
Anderson, S. H., see Gutzwiller, K. J., 378
Anser albifrons, 390
Ant-following birds, 529
Aquila chrysaetos, 115, 664
Area use, 169
Argentina, 402
Arnold, Keith A., a review of *Missouri Breeding Bird Atlas 1986–1992*, by Brad Jacobs and James D. Wilson, and *Atlas of the Breeding Birds of Tennessee*, by Charles P. Nicholson, 725
Arroyo, Beatriz E., Copulatory Behavior of Semi-colonial Montagu's Harriers, 340
Arroyo, G. M., see Amat, J. A., 157, and Amat, J. A., 746
Asio otus, 854
Atlantic Forest, 537
Atlas of the Breeding Birds of Tennessee, by Charles P. Nicholson, reviewed by Keith A. Arnold, 725
Auklet, 518
Autumn Migration Speed of Juvenile Reed and Sedge Warblers in Relation to Date and Fat Loads, by Staffan Bensch and Bo Nielsen, 153
Avery, Michael L., a review of *Munias and Mannikins*, by Robin Restall, 188
Avian Biochemistry and Molecular Biology, by Lewis Stevens, reviewed by Lowell Overton, 190
Avian Communities of Mature Balsam Fir Forests in Newfoundland: Age-Dependence and Implications for Timber Harvesting, by Ian D. Thompson, Holly A. Hogan and William A. Montevecchi, 311
Avian energetics, 432
Avian Growth and Development: Evolution Within the Altricial-Precocial Spectrum, edited by J. Mattias Starck and Robert E. Ricklefs, reviewed by Raymond J. O'Connor, 722
Avian Molecular Evolution and Systematics, edited by David P. Mindell, reviewed by Douglas D. Rhoads, 189
Aythya, 422

B

Baeolophus bicolor, 408, 880
griseus, 863
Baker, Allan J., Theunis Piersma and Annette D. Greenslade, Molecular vs. Phenotypic Sexing in Red Knots, 887
Baker, Myron C., and Jeanette T. Boylan, Singing Behavior, Mating Associations, and Reproductive Success in a Population of Hybridizing Lazuli and Indigo Buntings, 493
Ballance, L. T., see Hertel, F., 549
Ballard, B. M., see Igl, L. D., 771
Balsam fir forest, 311
Baltic Sea, 598
Banding, 667
Banko, P. C., see Work, T. M., 21
Bar-tailed Desert Lark, 714
Barba, E., see Ponz, A., 818
Barlow, J. C., see Klicka, J., 577
Barrow, W. C., see Rappole, J. H., 762
Basal metabolic rate, 432
Bearded Vulture, 164
Beauchamp, W., see Vanderkist, B. A., 398
Beauchamp, Wendy D., Fred Cooke, Cecilia Lougheed, Lynn W. Lougheed, C. John Ralph and Stephen Courtney, Seasonal Movements of Mar-

bled Murrelets: Evidence From Banded Birds, 671
Bednarz, J. C., see Gerstell, A. T., 557
Behavior of Migrating Shorebirds at North Dakota Prairie Potholes, by Manuel T. De Leon and Loren M. Smith, 645
Behavioral Correlates of Heart Rates of Free-Living Greater White-fronted Geese, by Craig R. Ely, David H. Ward and Karen S. Bollinger, 390
Behavioral games, 916
Beier, P., see Delaney, D. K., 42
Beissinger, S. R., see Grenier, J. L., 752
Bensch, Staffan, and Bo Nielsen, Autumn Migration Speed of Juvenile Reed and Sedge Warblers in Relation to Date and Fat Loads, 153
Berrow, S. D., N. Huin, R. Humpidge, A. W. A. Murray and P. A. Prince, Wing and Primary Growth of the Wandering Albatross, 360
Bertellotti, Marcelo, and Pablo Yorio, Spatial and Temporal Patterns in the Diet of the Kelp Gull in Patagonia, 790
Bertram, D. F., see Blight, L. K., 871
Bertran, Joan, and Antoni Margalida, Copulatory Behavior of the Bearded Vulture, 164
Bewick's Wren, 219
Bill, 710
Biogeography, 76
Biomonitoring, 331
Bird, D. M., see Fernie, K. J., 616
Bird Collectors, by Barbara and Richard Mearns, reviewed by William E. Davis Jr., 724
Bird communities, 311, 537
Bird Communities in Two Types of Anthropogenic Successional Vegetation in Central Amazonia, by Sérgio Henrique Borges and Philip C. Stouffer, 529
Bird disturbance, 378
Bird song, 13, 493, 845
Birds of St. Helena, by Beau W. Rowlands, Trevor Trueman, Storrs L. Olson, M. Neil McCulloch, and Richard K. Brooke, reviewed by David W. Steadman, 928
Bischof, Hans-Joachim, a review of *Social Influences on Vocal Development,* edited by Charles T. Snowdon and Martine Hausberger, 455
Black Guillemot, 589
Black Redstart, 689
Black-crowned Night-Heron, 607
Black-throated Gray Warbler, 67
Blendinger, Pedro G., Facilitation of Sap-Feeding Birds by the White-fronted Woodpecker in the Monte Desert, Argentina, 402
Blight, Louise K., John L. Ryder and Douglas F. Bertram, Predation on Rhinoceros Auklet Eggs by a Native Population of *Peromyscus,* 871
Boat-tailed Grackle, 845
Bobolink, 686
Body condition, 598
  mass, 616
Bogliani, G., see Sergio, F., 806
Bollinger, K. S., see Ely, C. R., 390
Bolstad, J. P., see Overskaug, K., 169
Boreal forest, 299, 311, 699, 799
Borges, Sérgio Henrique, and Philip C. Stouffer, Bird Communities in Two Types of Anthropogenic Successional Vegetation in Central Amazonia, 529
Bottomland hardwood forest, 920
Bowardi, M. A., see Combreau, O., 159
Boylan, J. T., see Baker, M. C., 493
Bozinovic, F., see López-Calleja, M. V., 705, and Meynard, C., 904
Brachyramphus marmoratus, 398, 671
Brain, 710
Brazil, 537
Breeding Biology and Productivity of Florida's Crested Caracaras, by Joan L. Morrison, 505
Breeding bird atlas, 472
  Bird Survey, 50
  density, 288
  failure, 566
  phenology, 907
Breeding of the Gray-winged Trumpeter in French Guiana, by Pierre de Mercey and Marc Théry, 907
Briefly Noted Book Reviews, by Kimberly G. Smith, 460
Briskie, J. V., see Johnson, D. D. P., 848
Bronson, C. L., see Pravosudov, V. V., 880
Brood structure, 598
  survival, 369
Brown Thrasher Nest Reuse: A Time Saving Resource, Protection from Search-Strategy Predators, or Cues for Nest-Site Selection?, by John F. Cavitt, Aaron T. Pearse and Todd A. Miller, 859
Brown, C. R., see Davis, J. A., 737
Brown, Charles R., a review of *Host-Parasite Evolution: General Principles and Avian Models,* edited by Dale H. Clayton and Janice Moore, 456
Brown, Charles R., and Mary Bomberger Brown, Fitness Components Associated with Laying Date in the Cliff Swallow, 230
Brown, M. B., see Brown, C. R., 230
Brown-headed Cowbird, 484, 729
Brua, Robert B., Ruddy Duck Nesting Success: Do Nest Characteristics Deter Nest Predation?, 867
Brunton, Dianne, "Optimal" Colony Size for Least Terns: An Inter-Colony Study of Opposing Selective Pressures by Predators, 607
Bubo virginianus, 331
Burger, J., see Tsipoura, N., 635
Buteo swainsoni, 557
By-catch, 783

C

Cabe, Paul R., Dispersal and Population Structure in the European Starling, 451
Cairina moschata, 710
Calidris canutus, 887
California Gnatcatcher, 876
  Quail, 678
Callipepla californica, 678
Calonectris diomedea, 174
Canary Islands, 1
Capelin, 566
Capp, M. S., see Ammer, F. K., 686
Capture-recapture, 589
Carbon-13, 799

Cardinalis cardinalis, 255, 655
Carduelis flammea, 195
Carolina Chickadee, 408, 880
Carpenter, L. B., see Steenhof, K., 2
Cavitt, John F., Aaron T. Pearse and Todd A. Miller, Brown Thrasher Nest Reuse: A Time Saving Resource, Protection from Search-Strategy Predators, or Cues for Nest-Site Selection?, 859
Cavity nesting, 58
roosting, 863
Ceca, 622
Cedrola, P. V., see Gandini, P. A., 783
Cellulose, 622
Censuses, 461
Central Asia, 159
Cepphus grylle, 589
Cerorhinca monocerata, 871
Certhia americana, 58
Chamaea fasciata, 288
Charadrii, 461, 848
Charadrius alexandrinus, 157, 746
CHD genes, 887
Cherel, Y., see Tremblay, Y., 179
Chesser, R. Terry, Molecular Systematics of the Rhinocryptid Genus *Pteroptochos,* 439
Chicks, 360
Chile, 439
Chitin, 622
Chlamydotis undulata macqueenii, 159
Christmas Shearwaters, 549
Circadian Metabolic Responses to Food Deprivation in the Black-shouldered Kite, by Andrew E. McKechnie and Barry G. Lovegrove, 426
Circannual rhythms, 347
Circus pygargus, 340
Clark, R. G., see Guyn, K. L., 369
Clegg, K. R., see Ellis, D. H., 664
Cliff Swallow, 230
Clotfelter, Ethan D., and Ken Yasukawa, Impact of Brood Parisitism by Brown-headed Cowbirds on Red-winged Blackbird Reproductive Success, 105
Clotfelter, Ethan D., and Ken Yasukawa, The Effect of Aggregated Nesting on Red-winged Blackbird Nest Success and Brood Parasitism by Brown-headed Cowbirds, 729
Clutch size, 1, 96, 876, 907
Collins, Christine E., and Anne M. Houtman, Tan and White Color Morphs of White-throated Sparrows Differ In Their Non-song Vocal Responses to Territorial Intrusion, 842
Colonial breeding, 607
Coloniality, 340, 737
Colony attendance, 149
Color bands, 884
Coloration, 655
Combreau, Olivier, Frederic Launay, Mohammed Al Bowardi and Boris Gubin, Outward Migration of Houbara Bustards From Two Breeding Areas in Kazakhstan, 159
Common Amakihi, 21
Eider, 598, 824
Murre, 149
Redpoll, 195
Communal broods, 678
feeding, 179
Community convergence, 299
structure, 299
Competition, 402, 655
Competition and Patterns of Resource Use By Two Sympatric Raptors, by Arnold T. Gerstell and James C. Bednarz, 557
Conservation, 14
Conservation of Faunal Diversity in Forested Landscapes, edited by R. M. DeGraaf and R. I. Miller, reviewed by Thomas W. Sherry, 186
Conservation Status and Habitat Preferences of the Cozumel Curassow, by Miguel Angel Martínez-Morales, 14
Constant-effort mist-netting, 288
Continental comparison, 299
Cooke, F., see Beauchamp, W. D., 671
Cooper's Hawk, 674
Cooper, Robert J., R. Randy Wilson, Gary D. Zenitsky, Stephen J. Mullin, Jennifer A. DeCecco, Matthew R. Marshall, Dorothy J. Wolf and Lars Y. Pomara, Does Nonrandom Nest Placement Imply Nonrandom Nest Predation?–A Reply, 920
Cooper, Sheldon J., The Thermal and Energetic Significance of Cavity Roosting in Mountain Chickadees and Juniper Titmice, 863
Copulation, 518
Copulatory Behavior of Semi-colonial Montagu's Harriers, by Beatriz E. Arroyo, 340
Copulatory Behavior of the Bearded Vulture, by Joan Bertran and Antoni Margalida, 164
Cory's Shearwater, 174
Costs of Coloniality and the Effect of Colony Size on Reproductive Success in Purple Martins, by Jeffrey A. Davis and Charles R. Brown, 737
Coturnicops noveboracensis, 667
Countersinging, 484
Courtney, S., see Beauchamp, W. D., 671
Courtship, 518
Courtship feeding, 681
Cozumel Curassow, 14
Cracidae, 14
Crax rubra griscomi, 14
Creching, 598
Crested Auklet, 518
Cristol, D. A., see Weiss, V. A., 884
Cucco, Marco, and Giorgio Malacarne, Is the Song of Black Redstart Males an Honest Signal of Status?, 689
Cultural evolution, 13
transmission, 493
Cyclic prey, 115
Cyclorrhynchus psittacula, 518

D

da Silva, Mónica Carneiro, and José Pedro Granadeiro, Genetic Variability and Isolation of Cory's Shearwater Colonies in the Northeast Atlantic, 174
Davis, Jeffrey A., and Charles R. Brown, Costs of Coloniality and the Effect of Colony Size on Reproductive Success in Purple Martins, 737

Davis, William E., a review of *The Bird Collectors*, by Barbara and Richard Mearns, 724
De Leon, Manuel T., and Loren M. Smith, Behavior of Migrating Shorebirds at North Dakota Prairie Potholes, 645
DeCecco, J. A., see Cooper, R. J., 920
DeGolier, Teresa F., Sheila A. Mahoney and Gary E. Duke, Relationships of Avian Cecal Lengths to Food Habits, Taxonomic Position, and Intestinal Lengths, 622
Delaney, David K., Teryl G. Grubb and Paul Beier, Activity Patterns of Nesting Mexican Spotted Owls, 42
Delaware Bay, 635
Delayed maturation, 689
DeLong, John, and Stephen W. Hoffman, Differential Autumn Migration of Sharp-shinned and Cooper's Hawks in Western North America, 674
Denali National Park, 115
Dendroica chrysoparia, 762
nigrescens, 67
virens, 262
Desert birds, 714
Desrochers, A., see Drolet, B., 699
Development of Endothermy in American White Pelicans, by Christine L. Abraham and Roger M. Evans, 832
Dhondt, A. A., see Hochachka, W. M., 195
Dhondt, André A., a review of *Habitats for Birds in Europe: A Conservation Strategy for the Wider Environment*, compiled by Graham M. Tucker and Michael I. Evans, 724
Dialects, 484
Diamond, A. W., see Mawhinney, K., 824
Dickinson, J. L., see Marks, J. S., 854
Dieldrin, 331
Diet, 635, 790, 806
Diet selectivity, 246
Dietary analysis, 898
Differential Autumn Migration of Sharp-shinned and Cooper's Hawks in Western North America, by John DeLong and Stephen W. Hoffman, 674
Digestive Enzymes of a Small Avian Herbivore, the Rufous-tailed Plantcutter, by Christine Meynard, M. Victoria López-Calleja, Francisco Bozinovic and Pablo Sabat, 904
Diomedea exulans, 360
Disaccharidases, 904
Discriminant analysis, 887
Dispersal and Population Structure in the European Starling, by Paul R. Cabe, 451
Distribution, 461
Distribution, Abundance, and Habitat Characteristics of the Buff-breasted Flycatcher in Arizona, by John A. Martin and Michael L. Morrison, 272
Distribution and Diurnal Behavior of Steller's Eiders Wintering on the Alaska Peninsula, by Murray K. Laubhan and Keith A. Metzner, 694
Diving activity, 179
DNA fingerprinting, 174, 854
Do Black-throated Green Warblers Prefer Conifers? Meso- and Microhabitat Use in a Mixedwood Forest, by Isabelle Robichaud and Marc-André Villard, 262
Does Nonrandom Nest Placement Imply Nonrandom Nest Predation?–A Reply, by Robert J. Cooper, R. Randy Wilson, Gary D. Zenitsky, Stephen J. Mullin, Jennifer A. DeCecco, Matthew R. Marshall, Dorothy J. Wolf and Lars Y. Pomara, 920
Doherty, P. F., see Pravosudov, V. V., 880
Dolby, A. S., see Pravosudov, V. V., 880
Dolby, Andrew S., and Thomas C. Grubb Jr., Effects of Winter Weather on Horizontal and Vertical Use of Isolated Forest Fragments by Bark-foraging Birds, 408
Dolichonyx oryzivorus, 686
Dominance, 655, 880
Dougill, S., see Work, T. M., 21
Downy Woodpecker, 408
Doyle, T. J., see Klicka, J., 577
Drolet, Bruno, André Desrochers and Marie-Josée Fortin, Effects of Landscape Structure on Nesting Songbird Distribution in a Harvested Boreal Forest, 699
Duck, 422, 710
Duckling survival, 369
Ducklings, 824
Dufty, Alfred M., and Annette Hanson, Vocal and Behavioral Responses of Brown-headed Cowbirds to Flight Whistles From Different Dialects, 484
Duke, G. E., see DeGolier, T. F., 622
Dune Larks, 432
Dunn's Larks, 714

E

Ecomorphology, 549
Ectoparasitism, 230, 737
Edge effects, 408, 867
Effect of Aggregated Nesting on Red-winged Blackbird Nest Success and Brood Parasitism by Brown-headed Cowbirds, by Ethan D. Clotfelter and Ken Yasukawa, 729
Effects of Electromagnetic Fields on Body Mass and Food-Intake of American Kestrels, by Kimberly J. Fernie and David M. Bird, 616
Effects of Landscape Structure on Nesting Songbird Distribution in a Harvested Boreal Forest, by Bruno Drolet, André Desrochers and Marie-Josée Fortin, 699
Effects of Selective Logging on a Bird Community in the Brazilian Atlantic Forest, by Alexandre Aleixo, 537
Effects of Winter Weather on Horizontal and Vertical Use of Isolated Forest Fragments by Bark-foraging Birds, by Andrew S. Dolby and Thomas C. Grubb Jr., 408
Egg laying, 124, 422
neglect, 871
predation, 871
remains, 718
El Niño, 205
Electromagnetic fields, 616
Ellis, David H., Kent R. Clegg, James C. Lewis and Errol Spaulding, Golden Eagle Predation on Experimental Sandhill and Whooping Cranes, 664
Ely, Craig R., David H. Ward and Karen S. Bollinger, Behavioral Correlates of Heart Rates of Free-Living Greater White-fronted Geese, 390

Emberiza alcoveri, 1
Empidonax fulvifrons, 272
virescens, 916, 920
Endangered species, 282, 762
Energy metabolism, 863
reserves, 880
Escalona-Segura, G., see Rice, N. H., 446
Esler, Daniel, Time of Day of Ovulation by Three Duck Species in Subarctic Alaska, 422
Eudyptes chrysocome, 179
Eurasian Hobby Density, Nest Area Occupancy, Diet, and Productivity in Relation to Intensive Agriculture, by Fabrizio Sergio and Giuseppe Bogliani, 806
European Starling, 124, 451
Evans, R. M., see Abraham, C. L., 832
Evaporative water loss, 714
Evidence of Male-Bias in Capture Samples of Marbled Murrelets From Genetic Studies in British Columbia, by Brett A. Vanderkist, Xiao-Hua Xue, Richard Griffiths, Kathy Martin, Wendy Beauchamp and Tony D. Williams, 398
Evidence Supporting the Recent Origin and Species Status of the Timberline Sparrow, by John Klicka, Robert M. Zink, Jon C. Barlow, W. Bruce McGillivray and Terry J. Doyle, 577
Extinction, 1
Extra-pair copulations, 340

F

Faaborg, John, a review of *A Guide to the Birds of the West Indies*, by Herbert A. Raffaele, James W. Wiley, Orlando H. Garrido, Allan R. Keith, and Janis I. Raffaele, 457
Facilitation of Sap-Feeding Birds by the White-fronted Woodpecker in the Monte Desert, Argentina, by Pedro G. Blendinger, 402
Factors Affecting Prey Preparation by Adult Magpies Feeding Nestlings, by Adrián Ponz, José A. Gil-Delgado and Emilio Barba, 818
Factors Affecting Survival of Northern Pintail Ducklings in Alberta, by Karla L. Guyn and Robert G. Clark, 369
Facultative Communal Brood Rearing in California Quail, by Dale F. Lott and Sonke N. A. Mastrup, 678
Falco mexicanus, 2
sparverius, 616
subbuteo, 806
Fat reserves, 880
Fatness, 880
Feathers, 799
Feeding Behavior and Assimilation Efficiency of the Rufous-tailed Plantcutter: A Small Avian Herbivore, by M. Victoria López-Calleja and Francisco Bozinovic, 705
Feeding ecology, 790
Female Plumage Coloration in the Bluethroat: No Evidence for an Indicator of Maternal Quality, by Percy A. Rohde, Arild Johnsen and Jan T. Lifjeld, 96
Fernie, Kimberly J., and David M. Bird, Effects of Electromagnetic Fields on Body Mass and Food-Intake of American Kestrels, 616
Finch, D. M., see Kelly, J. F., 76
Fish offal, 566
Fitness, 678, 737
Fitness Components Associated with Laying Date in the Cliff Swallow, by Charles R. Brown and Mary Bomberger Brown, 230
Fledgling Behavior and Survival in Northern Tawny Owls, by Kristian Overskaug, Jan P. Bolstad, Peter Sunde and Ingar J. Øien, 169
Flight, 390, 549
Flight whistles, 484
Flightlessness, 1
Flint, Paul L., and J. Barry Grand, Incubation Behavior of Spectacled Eiders on the Yukon-Kuskokwim Delta, Alaska, 413
Fluctuating Populations of House Wrens and Bewick's Wrens in Foothills of the Western Sierra Nevada of California, by Jared Verner and Kathryn L. Purcell, 219
Foliage-gleaning bird, 299
Food deprivation, 426
habits, 622
intake, 616
patchiness, 179
preferences, 705
shortage, 566
Foraging, 246
behavior, 67, 762
efficiency, 674
Foraging Ecology and Diet Selectivity of Tree Swallows Feeding Nestlings, by John P. McCarty and David W. Winkler, 246
Foraging Ecology of Cavity-Nesting Birds in Young Forests of the Northern Coast Range of Oregon, by Jennifer M. Weikel and John P. Hayes, 58
Forest management, 311, 920
Forpus passerinus, 752
Fortin, M., see Drolet, B., 699
Fowlie, M. K., see Hatchwell, B. J., 681
Fraga, R. M., see Amat, J. A., 157, and Amat, J. A., 746
Frank, Rosemary A., and R. Scott Lutz, Productivity and Survival of Great Horned Owls Exposed to Dieldrin, 331
Frederiksen, Morten, and Aevar Petersen, Adult Survival of the Black Guillemot in Iceland, 589
Frequency and Function of Aquatic Courtship and Copulation in Least, Crested, Whiskered, and Parakeet Auklets, by F. M. Hunter and I. L. Jones, 518
Frere, E., see Gandini, P. A., 783
Fringilla, 299
Frugivory, 799
Fulica americana, 893
Furness, R. W., see Thompson, D. R., 898

G

Gallinula chloropus guami, 282
Gandini, Patricia A., Esteban Frere, Alejandro D. Pettovello and Paula V. Cedrola, Interaction Between Magellanic Penguins and Shrimp Fisheries in Patagonia, Argentina, 783
Gene flow, 174
Genetic Monogamy in Long-eared Owls, by Jeffrey S.

Marks, Janis L. Dickinson and Joseph Haydock, 854
Genetic Variability and Isolation of Cory's Shearwater Colonies in the Northeast Atlantic, by Mónica Carneiro da Silva and José Pedro Granadeiro, 174
Gerstell, Arnold T., and James C. Bednarz, Competition and Patterns of Resource Use By Two Sympatric Raptors, 557
Geupel, G. R., see Silkey, M., 288
Gil-Delgado, J. A., see Ponz, A., 818
Gille, Uwe, and Franz-Viktor Salomon, Growth of Duck Bills, 710
Golden Eagle, 115
Golden Eagle Predation on Experimental Sandhill and Whooping Cranes, by David H. Ellis, Kent R. Clegg, James C. Lewis and Errol Spaulding, 664
Golfo San Jorge, 783
Granadeiro, J. P., see da, M. C., 174
Grand, J. B., see Flint, P. L., 413
Grassland birds, 771
Great Black-backed Gulls, 824
Great Horned Owls, 331
Greater White-fronted Geese, 390
Green-rumped Parrotlet, 752
Greenberg, Russell, Vladimir Pravosudov, John Sterling, Anna Kozlenko and Vitally Kontorshchikov, Tits, Warblers, and Finches: Foliage-gleaning Birds of Neartic and Paleartic Boreal Forests, 299
Greenslade, A. D., see Baker, A. J., 887
Grenier, J. Letitia, and Steven R. Beissinger, Variation in the Onset of Incubation in a Neotropical Parrot, 752
Griffiths, R., see Vanderkist, B. A., 398
Growth curve, 710
  pattern, 360
  rates, 360
Growth of Duck Bills, by Uwe Gille and Franz-Viktor Salomon, 710
Grubb, T. C., see Delaney, D. K., 42; Dolby, A. S., 408; and Pravosudov, V. V., 880
Grus americana, 664
  canadensis, 664
Guam, 282
Gubin, B., see Combreau, O., 159
Guide to the Birds of India, Pakistan, Nepal, Bangladesh, Bhutan, Sri Lanka, and the Maldives, by Richard Grimmett, Carol Inskipp, and Tim Inskipp, reviewed by Ragupathy Kannan and D. P. Wijesinghe, 927
Guide to the Birds of the West Indies, by Herbert A. Raffaele, James W. Wiley, Orlando H. Garrido, Allan R. Keith, and Janis I. Raffaele, reviewed by John Faaborg, 457
Gulf Coast, 76
Gull depredation, 824
Gut sampling, 635
Gutiérrez, R. J., see LaHaye, W. S., 324
Gutzwiller, Kevin J., and Stanley H. Anderson, Spatial Extent of Human-Intrusion Effects on Subalpine Bird Distributions, 378
Guyn, Karla L., and Robert G. Clark, Factors Affecting Survival of Northern Pintail Ducklings in Alberta, 369
Gwinner, Eberhard, and Alexander Scheuerlein, Photoperiodic Responsivenes of Equatorial and Temperate-zone Stonechats, 347

H

Habitat, 2
  fragmentation, 408
  selection, 58, 566
  use, 67, 169, 282, 762
Habitat Associations of Migrating and Overwintering Grassland Birds in Southern Texas, by Lawrence D. Igl and Bart M. Ballard, 771
Habitat Selection and Reproductive Performance of Food-stressed Herring Gulls, by Michael S. Rodway and Heidi M. Regehr, 566
Habitats for Birds in Europe: A Conservation Strategy for the Wider Environment, compiled by Graham M. Tucker and Michael I. Evans, reviewed by André A. Dhondt, 724
Hahn, T. P., see Harbison, H., 13
Hairy Woodpecker, 86
Hanson, A., see Dufty, A. M., 484
Harbison, Heidi, Douglas A. Nelson and Thomas P. Hahn, Long-Term Persistence of Song Dialects in the Mountain White-crowned Sparrow, 13
Harris' Hawks, 557
Hatching date, 369
  patterns, 752
  success, 752
Hatchwell, B. J., M. K. Fowlie, D. J. Ross and A. F. Russell, Incubation Behavior of Long-tailed Tits: Why Do Males Provision Incubating Females?, 681
Haydock, J., see Marks, J. S., 854
Hayes, J. P., see Weikel, J. M., 58
Heartrate, 390
Heat Production and Evaporative Water Loss of Dune Larks from the Namib Desert, by Jos. B. Williams, 432
Heat transfer coefficient, 432
Hemignathus virens, 21
Hepp, G., see McKnight, S. K., 893
Herbivore, 705
Herbivory, 904
Herring Gull, 566
Hertel, Fritz, and Lisa T. Ballance, Wing Ecomorphology of Seabirds from Johnston Atoll, 549
Hobson, Keith A., Stable-Carbon and Nitrogen Isotope Ratios of Songbird Feathers Grown in Two Terrestrial Biomes: Implications for Evaluating Trophic Relationships and Breeding Origins, 799
Hochachka, Wesley M., Jeffrey V. Wells, Kenneth V. Rosenberg, Diane L. Tessaglia-Hymes and André A. Dhondt, Irruptive Migration of Common Redpolls, 195
Hoffman, S. W., see DeLong, J., 674
Hogan, H. A., see Thompson, I. D., 311
Hoopoe Lark, 714
Hornbills, by Alan Kemp, reviewed by Ragupathy Kannan and Douglas A. James, 458
Horseshoe crabs, 635

Host-Parasite Evolution: General Principles and Avian Models, edited by Dale H. Clayton and Janice Moore, reviewed by Charles R. Brown, 456
Houbara Bustard, 159
House Wren, 219
Houtman, A. M., see Collins, C. E., 842
Huet-huet, 439
Huin, N., see Berrow, S. D., 360
Human disturbance, 529
intrusion, 378
Humpidge, R., see Berrow, S. D., 360
Hunter, F. M., and I. L. Jones, The Frequency and Function of Aquatic Courtship and Copulation in Least, Crested, Whiskered, and Parakeet Auklets, 518
Hunting, 14
Hybrid unfitness, 493
Hybridization, 493

I

Icelandic seabirds, 898
Ideal free distribution, 566, 737
Igl, Lawrence D., and Bart M. Ballard, Habitat Associations of Migrating and Overwintering Grassland Birds in Southern Texas, 771
Impact of Brood Parisitism by Brown-headed Cowbirds on Red-winged Blackbird Reproductive Success, by Ethan D. Clotfelter and Ken Yasukawa, 105
Incubation Behavior of Long-tailed Tits: Why Do Males Provision Incubating Females?, by B. J. Hatchwell, M. K. Fowlie, D. J. Ross and A. F. Russell, 681
Incubation Behavior of Northern Shovelers in the Subarctic: A Contrast to the Prairies, by Margaret C. MacCluskie and James S. Sedinger, 417
Incubation Behavior of Spectacled Eiders on the Yukon-Kuskokwim Delta, Alaska, by Paul L. Flint and J. Barry Grand, 413
Incubation constancy, 413, 417
patterns, 752
period, 752
Indigo Bunting, 493
Individual optimization, 413
Influence of Summer Biogeography on Wood Warbler Stopover Abundance, by Jeffrey F. Kelly, Rob Smith, Deborah M. Finch, Frank R. Moore and Wang Yong, 76
Insect sampling, 246
Insectivorous birds, 529
Interaction Between Magellanic Penguins and Shrimp Fisheries in Patagonia, Argentina, by Patricia A. Gandini, Esteban Frere, Alejandro D. Pettovello and Paula V. Cedrola, 783
Intestinal lengths, 622
Irruptive Migration of Common Redpolls, by Wesley M. Hochachka, Jeffrey V. Wells, Kenneth V. Rosenberg, Diane L. Tessaglia-Hymes and André A. Dhondt, 195
Is Red Coloration of Male Northern Cardinals Beneficial During the Nonbreeding Season?: A Test of Status Signaling, by L. LaReesa Wolfenbarger, 655
Is the Song of Black Redstart Males an Honest Signal of Status?, by Marco Cucco and Giorgio Malacarne, 689
Island populations, 174
Isotonic regression, 876
Izembek Lagoon, 694

J

James, D. A., see Kannan, R., 458
Japanese White-eye, 21
Johnsen, A., see Rohde, P. A., 96
Johnson, Dominic D. P., and James V. Briskie, Sperm Competition and Sperm Length in Shorebirds, 848
Johnson, L., see Work, T. M., 21
Jones, I. L., see Hunter, F. M., 518
Juniper Titmouse, 863

K

Kannan, Ragupathy, and D. P. Wijesinghe, a review of *A Guide to the Birds of India, Pakistan, Nepal, Bangladesh, Bhutan, Sri Lanka, and the Maldives,* by Richard Grimmett, Carol Inskipp, and Tim Inskipp, 927
Kannan, Ragupathy, and Douglas A. James, a review of *The Hornbills,* by Alan Kemp, 458
Keane, John J., and Michael L. Morrison, Temporal Variation in Resource Use by Black-throated Gray Warblers, 67
Keen's mouse, 871
Keller, Cherry M. E., and Jacqueline T. Scallan, Potential Roadside Biases Due to Habitat Changes Along Breeding Bird Survey Routes, 50
Kelly, Jeffrey F., Rob Smith, Deborah M. Finch, Frank R. Moore and Wang Yong, Influence of Summer Biogeography on Wood Warbler Stopover Abundance, 76
Kelp Gull, 790
Kentish Plover, 157, 746
King, D. I., see Rappole, J. H., 762
Kjelmyr, J. E., see Page, G. W., 461
Klicka, John, Robert M. Zink, Jon C. Barlow, W. Bruce McGillivray and Terry J. Doyle, Evidence Supporting the Recent Origin and Species Status of the Timberline Sparrow, 577
Kochert, M. N., see Steenhof, K., 2
Kontorshchikov, V., see Greenberg, R., 299
Kozlenko, A., see Greenberg, R., 299

L

LaHaye, William S., and R. J. Gutiérrez, Nest Sites and Nesting Habitat of the Northern Spotted Owl in Northwestern California, 324
Land uses, 2
Langer, U., see Meijer, T., 124
Laporte, P., see Robert, M., 667
Laridae, 549
Larivière, Serge, Reasons Why Predators Cannot Be Inferred From Nest Remains, 718
Larks, 714

Larus argentatus, 566
dominicanus, 790
marinus, 824
Late Pleistocene speciation, 577
Late Tertiary Woodcock From Menorca, Balearic Islands, Western Mediterranean, by Bartomeu Seguí, 909
Laubhan, Murray K., and Keith A. Metzner, Distribution and Diurnal Behavior of Steller's Eiders Wintering on the Alaska Peninsula, 694
Launay, F., see Combreau, O., 159
Laying date, 230, 746
Lazuli Bunting, 493
Least Auklet, 518
Sandpiper, 645
Terns, 607
Leg bands, 884
Lehman, R. N., see Steenhof, K., 2
Lesser Scaup, 422
Lewis, J. C., see Ellis, D. H., 664
Lifjeld, J. T., see Rohde, P. A., 96
Lilliendahl, K., see Thompson, D. R., 898
Lizard Burrows Provide Thermal Refugia for Larks in the Arabian Desert, by Joseph B. Williams, B. Irene Tieleman and Mohammed Shobrak, 714
Lone tending, 598
Long-billed Dowitcher, 645
Long-eared Owl, 854
Long-legged Bunting, 1
Long-tailed Tit, 681
Long-Term Persistence of Song Dialects in the Mountain White-crowned Sparrow, by Heidi Harbison, Douglas A. Nelson and Thomas P. Hahn, 13
Long-Term Prairie Falcon Population Changes in Relation to Prey Abundance, Weather, Land Uses, and Habitat Conditions, by Karen Steenhof, Michael N. Kochert, Leslie B. Carpenter and Robert N. Lehman, 28
Lott, Dale F., and Sonke N. A. Mastrup, Facultative Communal Brood Rearing in California Quail, 678
Lougheed, C., see Beauchamp, W. D., 671
Lougheed, L. W., see Beauchamp, W. D., 671
Lovegrove, B. G., see McKechnie, A. E., 426
Lutz, R. S., see Frank, R. A., 331
López, M., see Rando, J. C., 1
López-Calleja, M. V., see Meynard, C., 904
López-Calleja, M. Victoria, and Francisco Bozinovic, Feeding Behavior and Assimilation Efficiency of the Rufous-tailed Plantcutter: A Small Avian Herbivore, 705

M

MacCluskie, Margaret C., and James S. Sedinger, Incubation Behavior of Northern Shovelers in the Subarctic: A Contrast to the Prairies, 417
Magellanic Penguins, 783
Magpies, 818
Mahoney, S. A., see DeGolier, T. F., 622
Malacarne, G., see Cucco, M., 689
Mallard, 710
Marbled Murrelet, 398, 671
Margalida, A., see Bertran, J., 164
Mariana Common Moorhen, 282
Marks, Jeffrey S., Janis L. Dickinson and Joseph Haydock, Genetic Monogamy in Long-eared Owls, 854
Marshall, M. R., see Cooper, R. J., 920
Martin, John A., and Michael L. Morrison, Distribution, Abundance, and Habitat Characteristics of the Buff-breasted Flycatcher in Arizona, 272
Martin, K., see Vanderkist, B. A., 398
Martínez-Morales, Miguel Angel, Conservation Status and Habitat Preferences of the Cozumel Curassow, 14
Mass, 635
Massey, J. G., see Work, T. M., 21
Mastrup, S. N. A., see Lott, D. F., 678
Mate choice, 686
Mate-guarding, 737
Mating systems, 848
Maurer, Brian A., a review of *Population Limitation in Birds,* by Ian Newton, 926
Mawhinney, K., and A. W. Diamond, Using Radio-Transmitters to Improve Estimates of Gull Predation on Common Eider Ducklings, 824
McCarty, John P., and David W. Winkler, Foraging Ecology and Diet Selectivity of Tree Swallows Feeding Nestlings, 246
McGillivray, W. B., see Klicka, J., 577
McIntyre, Carol L., and Layne G. Adams, Reproductive Characteristics of Migratory Golden Eagles in Denali National Park, Alaska, 115
McKechnie, Andrew E., and Barry G. Lovegrove, Circadian Metabolic Responses to Food Deprivation in the Black-shouldered Kite, 426
McKnight, S. Keith, and Gary Hepp, Molt Chronology of American Coots in Winter, 893
Meijer, Theo, U. Nienaber, U. Langer and F. Trillmich, Temperature and Timing of Egg-Laying of European Starlings, 124
Melanerpes cactorum, 402
Melman, David S., and William A. Searcy, Microgeographic Song Discrimination in a Nonterritorial Passerine, the Boat-tailed Grackle, 845
Melospiza melodia, 288
Menorca, 909
Mercey, Pierre de, and Marc Théry, Breeding of the Gray-winged Trumpeter in French Guiana, 907
Metabolic depression, 426
Metabolism, 616
Metzner, K. A., see Laubhan, M. K., 694
Mexican Spotted Owl, 42
Meynard, Christine, M. Victoria López-Calleja, Francisco Bozinovic and Pablo Sabat, Digestive Enzymes of a Small Avian Herbivore, the Rufous-tailed Plantcutter, 904
Miafra erythrocephalus, 432
Microgeographic Song Discrimination in a Nonterritorial Passerine, the Boat-tailed Grackle, by David S. Melman and William A. Searcy, 845
Microhabitat, 262
Middle Rio Grande Valley, 76
Migration, 76, 159, 635, 671, 771, 799
Migration Routes of Sooty Shearwaters in the Pacific Ocean, by Larry B. Spear and David G. Ainley, 205

Miller, Edward H., Eric L. Walters and Henri Ouellet, Plumage, Size, and Sexual Dimorphism in the Queen Charlotte Islands Hairy Woodpecker, 86
Miller, Mark W., Relative Effects of Plumage Coloration and Vegetation Density on Nest Success, 255
Miller, T. A., see Cavitt, J. F., 859
Missouri Breeding Bird Atlas 1986–1992, by Brad Jacobs and James D. Wilson, reviewed by Keith A. Arnold, 725
Mixed-species flocks, 529
Mixing model, 898
Molecular sexing, 887
Molecular Systematics of the Rhinocryptid Genus *Pteroptochos*, by R. Terry Chesser, 439
Molecular vs. Phenotypic Sexing in Red Knots, by Allan J. Baker, Theunis Piersma and Annette D. Greenslade, 887
Molothrus ater, 484, 729
Molt, 616
Molt Chronology of American Coots in Winter, by S. Keith McKnight and Gary Hepp, 893
Montagu's Harrier, 340
Monte Desert, 402
Montevecchi, W. A., see Thompson, I. D., 311
Moore, F. R., see Kelly, J. F., 76
Morphometric analysis, 577
Morphometrics, 887
Morrison, Joan L., Breeding Biology and Productivity of Florida's Crested Caracaras, 505
Morrison, M. L., see Keane, J. J., 67; and Martin, J. A., 272
Mortality, 169
Mountain Chickadee, 863
mtDNA sequence, 446, 577
Munias and Mannikins, by Robin Restall, reviewed by Michael L. Avery, 188
Murray, A. W. A., see Berrow, S. D., 360
Muscovy Ducks, 710

N

Namib Desert, 432
Nannus, 446
Nearest neighbor, 729
Nectarivory, 799
Nelson, D. A., see Harbison, H., 13
Neotropical migrant, 67, 762
Nest area occupation rate, 806
Nest attentiveness, 42, 413, 417
  dispersion, 806
  mortality, 916, 920
  predation, 718
  remains, 718
  reuse, 859
  sites, 157, 324
  -site selection, 859
  -site use, 867
  success, 729, 867
  tree selection, 916, 920
Nest Placement and Mortality: Is Nest Predation a Random Event in Space and Time?, by Kenneth A. Schmidt and Christopher J. Whelan, 916
Nest Sites and Nesting Habitat of the Northern Spotted Owl in Northwestern California, by William S. LaHaye and R. J. Gutiérrez, 324
Nesting behavior, 42
  cover, 746
  density, 607
  habitat, 324
  success, 157
  synchrony, 607, 729
Nestling diet, 818
New Species of Extinct Flightless Passerine (Emberizidae: *Emberiza*) from the Canary Islands, by J. C. Rando, M. López and B. Seguí, 1
Newfoundland, 311
Nielsen, B., see Bensch, S., 153
Nienaber, U., see Meijer, T., 124
Nitrogen-15, 799
Nonbreeding season, 771
Northern Cardinal, 255, 655
  Pintail, 369, 422
  Shoveler, 417
  Spotted Owl, 324
Nothofagus forest, 439
Numbers and Movements of Yellow Rails Along the St. Lawrence River, Quebec, by Michel Robert and Pierre Laporte, 667
Nur, N., see Silkey, M., 288
Nutrient requirements, 893
Nutritional constraints, 876
  ecology, 705
Nycticorax nycticorax, 607

O

O'Connor, Raymond J., a review of *Avian Growth and Development: Evolution Within the Atricial-Precocial Spectrum*, edited by J. Mattias Starck and Robert E. Ricklefs, 722
Ocean warming, 205
Øien, I. J., see Overskaug, K., 169
Old growth, 311
  conifer forests, 324
Old nests, 859
Oligopeptidase, 904
Onset of incubation, 752
"Optimal" Colony Size for Least Terns: An Inter-Colony Study of Opposing Selective Pressures by Predators, by Dianne Brunton, 607
Organochlorines, 331
Ouellet, H., see Miller, E. H., 86
Öst, Markus, Within-Season and Between-Year Variation in the Structure of Common Eider Broods, 598
Outward Migration of Houbara Bustards From Two Breeding Areas in Kazakhstan, by Olivier Combreau, Frederic Launay, Mohammed Al Bowardi and Boris Gubin, 159
Overskaug, Kristian, Jan P. Bolstad, Peter Sunde and Ingar J. Øien, Fledgling Behavior and Survival in Northern Tawny Owls, 169
Overton, Lowell, a review of *Avian Biochemistry and Molecular Biology*, by Lewis Stevens, 190
Overview of Shorebird Abundance and Distribution in Wetlands of the Pacific Coast of the Contiguous United States, by Gary W. Page, Lynne E. Stenzel and Janet E. Kjelmyr, 461

Overwintering, 771
Ovulation time, 422
Oxyura jamaicensis, 867

P

Pacific Coast, 461
  Northwest, 86
  Ocean, 205
Page, Gary W., Lynne E. Stenzel and Janet E. Kjelmyr, Overview of Shorebird Abundance and Distribution in Wetlands of the Pacific Coast of the Contiguous United States, 461
Paleontology, 1, 909
Parabuteo unicinctus, 557
Parakeet Auklet, 518
Parental attendance, 149
Parmelee, David F., a review of *Skuas and Jaegers: A Guide to the Skuas and Jaegers of the World,* by Klaus Malling Olsen and Hans Larsson, 187
Parulidae, 76
Passeriformes, 1
Passerina amoena, 493
  cyanea, 493
Patagonia, 783, 790
Patten, Michael A., and John T. Rotenberry, The Proximate Effects of Rainfall on Clutch Size of the California Gnatcatcher, 876
Pearse, A. T., see Cavitt, J. F., 859
Pekin Ducks, 710
Permanent residents, 408
Peromyscus, 871
Petersen, A., see Frederiksen, M., 589
Peterson, A. T., see Rice, N. H., 446
Petrochelidon pyrrhonota, 230
Pettovello, A. D., see Gandini, P. A., 783
Phaethontidae, 549
Phillips, R. A., see Thompson, D. R., 898
Phoenicurus ochruros, 689
Photoperiodic Responsivenes of Equatorial and Temperate-zone Stonechats, by Eberhard Gwinner and Alexander Scheuerlein, 347
Phylogenetic Patterns in Montane *Troglodytes* Wrens, by Nathan H. Rice, A. Townsend Peterson and Griselda Escalona-Segura, 446
Phylogenetics, 439
Phylogeny, 446
Phylogeography, 577
Phytotoma rara, 705, 904
Piatt, J. F., see Van, T. I., 395, and Zador, S. G., 149
Pica pica, 818
Picoides pubescens, 408
  villosus, 58, 86
Piersma, T., see Baker, A. J., 887
Pipilo maculatus, 288
Plastic Color Bands Have No Detectable Short-term Effects on White-breasted Nuthatch Behavior, by Valerie A. Weiss and Daniel A. Cristol, 884
Playback, 484, 842
Plumage, 887
Plumage, Size, and Sexual Dimorphism in the Queen Charlotte Islands Hairy Woodpecker, by Edward H. Miller, Eric L. Walters and Henri Ouellet, 86
Poecile carolinensis, 408, 880
  gambeli, 863
  rufescens, 58
Point counts, 537
Polioptila californica, 876
Polysticta stelleri, 694
Pomara, L. Y., see Cooper, R. J., 920
Ponz, Adrián, José A. Gil-Delgado and Emilio Barba, Factors Affecting Prey Preparation by Adult Magpies Feeding Nestlings, 818
Population distribution, 694
Population Limitation in Birds, by Ian Newton, reviewed by Brian A. Maurer, 926
Population movements, 671
  sizes, 461
  structure, 451
  trends, 219, 288
Potential Roadside Biases Due to Habitat Changes Along Breeding Bird Survey Routes, by Cherry M. E. Keller and Jacqueline T. Scallan, 50
Prairie Falcon, 2
Prairie Pothole Region, 645
Pravosudov, V., see Greenberg, R., 299
Pravosudov, Vladimir V., Thomas C. Grubb Jr., Paul F. Doherty Jr., C. L. Bronson, Elena V. Pravosudova and Andrew S. Dolby, Social Dominance and Energy Reserves in Wintering Woodland Birds, 880
Pravosudova, E. V., see Pravosudov, V. V., 880
Predation, 607, 664, 867
Predation on Rhinoceros Auklet Eggs by a Native Population of *Peromyscus,* by Louise K. Blight, John L. Ryder and Douglas F. Bertram, 871
Predator identification, 718
Predictive Model of Wetland Habitat Use on Guam by Endangered Mariana Common Moorhens, by Michael W. Ritter and Julie A. Savidge, 282
Prey delivery rates, 42
Prey preparation, 818
Primaries, 360
Prince, P. A., see Berrow, S. D., 360
Procellariidae, 549
Procellariiform genetic diversity, 174
Productivity, 806
Productivity and Survival of Great Horned Owls Exposed to Dieldrin, by Rosemary A. Frank and R. Scott Lutz, 331
Project FeederWatch, 195
Proximate Effects of Rainfall on Clutch Size of the California Gnatcatcher, by Michael A. Patten and John T. Rotenberry, 876
Pteroptochos, 439
Puffinus griseus, 205
Purcell, K. L., see Verner, J., 219

Q

Queen Charlotte Islands, 86
Quiscalus major, 845

R

Rainfall, 876
Ralph, C. J., see Beauchamp, W. D., 671
Rando, J. C., M. López and B. Seguí, A New Species of Extinct Flightless Passerine (Emberizidae: *Emberiza*) from the Canary Islands, 1

Rappole, John H., David I. King and Wylie C. Barrow Jr., Winter Ecology of the Endangered Golden-cheeked Warbler, 762
Raptors, 557
Reasons Why Predators Cannot Be Inferred From Nest Remains, by Serge Larivière, 718
Red Knots, 635, 887
Red-tailed Tropicbirds, 549
Red-winged Blackbird, 1, 729
Refractoriness, 347
Regehr, H. M., see Rodway, M. S., 566
Relationships of Avian Cecal Lengths to Food Habits, Taxonomic Position, and Intestinal Lengths, by Teresa F. DeGolier, Sheila A. Mahoney and Gary E. Duke, 622
Relative Effects of Plumage Coloration and Vegetation Density on Nest Success, by Mark W. Miller, 255
Renesting, 746
Repertoire, 686
Replacement Clutches by Kentish Plovers, by Juan A. Amat, Rosendo M. Fraga and Gonzalo M. Arroyo, 746
Reproductive Characteristics of Migratory Golden Eagles in Denali National Park, Alaska, by Carol L. McIntyre and Layne G. Adams, 115
Reproductive success, 230
Resource use, 67
Reuse of Nesting Scrapes by Kentish Plovers, by Juan A. Amat, Rosendo M. Fraga and Gonzalo M. Arroyo, 157
Rhinoceros Auklet, 871
Rhoads, Douglas D., a review of *Avian Molecular Evolution and Systematics*, edited by David P. Mindell, 189
Rice, Nathan H., A. Townsend Peterson and Griselda Escalona-Segura, Phylogenetic Patterns in Montane *Troglodytes* Wrens, 446
Ritter, Michael W., and Julie A. Savidge, A Predictive Model of Wetland Habitat Use on Guam by Endangered Mariana Common Moorhens, 282
Robert, Michel, and Pierre Laporte, Numbers and Movements of Yellow Rails Along the St. Lawrence River, Quebec, 667
Robichaud, Isabelle, and Marc-André Villard, Do Black-throated Green Warblers Prefer Conifers? Meso- and Microhabitat Use in a Mixedwood Forest, 262
Rockhopper Penguins, 179
Rodway, Michael S., and Heidi M. Regehr, Habitat Selection and Reproductive Performance of Food-stressed Herring Gulls, 566
Rohde, Percy A., Arild Johnsen and Jan T. Lifjeld, Female Plumage Coloration in the Bluethroat: No Evidence for an Indicator of Maternal Quality, 96
Rosenberg, K. V., see Hochachka, W. M., 195
Ross, D. J., see Hatchwell, B. J., 681
Rotenberry, J. T., see Patten, M. A., 876
Ruddy Duck Nesting Success: Do Nest Characteristics Deter Nest Predation?, by Robert B. Brua, 867
Ruddy Turnstones, 635
Rufous-tailed Plantcutter, 705, 904
Russell, A. F., see Hatchwell, B. J., 681
Ryder, J. L., see Blight, L. K., 871

S

Sabat, P., see Meynard, C., 904
Salomon, F., see Gille, U., 710
Sanderling, 635
Sandhill Crane, 664
Satellite tracking, 159
Savidge, J. A., see Ritter, M. W., 282
Saxicola torquata, 347
Scallan, J. T., see Keller, C. M. E., 50
Scheuerlein, A., see Gwinner, E., 347
Schmidt, Kenneth A., and Christopher J. Whelan, Nest Placement and Mortality: Is Nest Predation a Random Event in Space and Time?, 916
Scolopax carmesinae, 909
Seabird diet, 783
Seabirds, 549
Searcy, W. A., see Melman, D. S., 845
Seasonal Movements of Marbled Murrelets: Evidence From Banded Birds, by Wendy D. Beauchamp, Fred Cooke, Cecilia Lougheed, Lynn W. Lougheed, C. John Ralph and Stephen Courtney, 671
Secondary forest birds, 529
Sedinger, J. S., see MacCluskie, M. C., 417
Seguí, B., see Rando, J. C., 1
Seguí, Bartomeu, A Late Tertiary Woodcock From Menorca, Balearic Islands, Western Mediterranean, 909
Selective logging, 537
Semipalmated Sandpiper, 635, 645
Sergio, Fabrizio, and Giuseppe Bogliani, Eurasian Hobby Density, Nest Area Occupancy, Diet, and Productivity in Relation to Intensive Agriculture, 806
Sex ratio, 398
Sexual dimorphism, 86, 655
selection, 518, 686
Sharp-shinned Hawk, 674
Sherry, Thomas W., a review of *Conservation of Faunal Diversity in Forested Landscapes*, edited by R. M. DeGraaf and R. I. Miller, 186
Shobrak, M., see Williams, J. B., 714
Shorebird Diet During Spring Migration Stopover on Delaware Bay, by Nellie Tsipoura and Joanna Burger, 635
Shorebirds, 461, 645
Shrimp fishery, 783
Silkey, Mariabeth, Nadav Nur and Geoffrey R. Geupel, The Use of Mist-net Capture Rates to Monitor Annual Variation in Abundance: A Validation Study, 288
Singing Behavior, Mating Associations, and Reproductive Success in a Population of Hybridizing Lazuli and Indigo Buntings, by Myron C. Baker and Jeanette T. Boylan, 493
Sitta canadensis, 58
carolinensis, 408, 880, 884
Skuas and Jaegers: A Guide to the Skuas and Jaegers of the World, by Klaus Malling Olsen and Hans Larsson, reviewed by David F. Parmelee, 187
Smith, Kimberly G., Briefly Noted Book Reviews, 460
Smith, L. M., see De, M. T., 645
Smith, R., see Kelly, J. F., 76
Social Dominance and Energy Reserves in Wintering

Woodland Birds, by Vladimir V. Pravosudov, Thomas C. Grubb Jr., Paul F. Doherty Jr., C. L. Bronson, Elena V. Pravosudova and Andrew S. Dolby, 880
Social Influences on Vocal Development, edited by Charles T. Snowdon and Martine Hausberger, reviewed by Hans-Joachim Bischof, 455
Solmundsson, J., see Thompson, D. R., 898
Somateria fischeri, 413
mollissima, 598, 824
Song dialects, 13
discrimination, 845
Song Sparrow, 288
Song Versatility and Social Context in the Bobolink, by Frank K. Ammer and Michael S. Capp, 686
Sooty Shearwater, 205
Spain, 818
Spatial and Temporal Patterns in the Diet of the Kelp Gull in Patagonia, by Marcelo Bertellotti and Pablo Yorio, 790
Spatial distributions, 378
Spatial Extent of Human-Intrusion Effects on Subalpine Bird Distributions, by Kevin J. Gutzwiller and Stanley H. Anderson, 378
Spaulding, E., see Ellis, D. H., 664
Spear, Larry B., and David G. Ainley, Migration Routes of Sooty Shearwaters in the Pacific Ocean, 205
Species limits, 439, 577
richness, 311
Spectacled Eider, 413
Sperm competition, 518, 848
morphology, 848
Sperm Competition and Sexual Selection, edited by T. R. Birkhead and A. P. Møller, reviewed by David F. Westneat, 924
Sperm Competition and Sperm Length in Shorebirds, by Dominic D. P. Johnson and James V. Briskie, 848
Spheniscus magellanicus, 783
Spizella arborea, 195
breweri, 577
taverneri, 577
Spotted Towhee, 288
Stable isotopes, 898
Stable-Carbon and Nitrogen Isotope Ratios of Songbird Feathers Grown in Two Terrestrial Biomes: Implications for Evaluating Trophic Relationships and Breeding Origins, by Keith A. Hobson, 799
Steadman, David W., a review of *The Birds of St. Helena,* by Beau W. Rowlands, Trevor Trueman, Storrs L. Olson, M. Neil McCulloch, and Richard K. Brooke, 928
Steenhof, Karen, Michael N. Kochert, Leslie B. Carpenter and Robert N. Lehman, Long-Term Prairie Falcon Population Changes in Relation to Prey Abundance, Weather, Land Uses, and Habitat Conditions, 21
Steller's Eiders, 694
Stenzel, L. E., see Page, G. W., 461
Sterling, J., see Greenberg, R., 299
Sterna antillarum, 607
Stilt Sandpiper, 645
Stonechats, 347
Stopover, 76, 771
Stouffer, P. C., see Borges, S. H., 529
Strix aluco, 169
occidentalis caurina, 324
occidentalis lucida, 42
Sturnus vulgaris, 124, 451
Subalpine forest, 378
Sulidae, 549
Sunde, P., see Overskaug, K., 169
Survival, 230, 331
Survival and Physiologic Response of Common Amakihi and Japanese White-eyes During Simulated Translocation, by Thierry M. Work, J. Gregory Massey, Luanne Johnson, Steve Dougill and Paul C. Banko, 21
Swainson's Hawks, 557
Synchronous diving, 179
Synchronous Underwater Foraging Behavior in Penguins, by Yann Tremblay and Yves Cherel, 179

T

Tachycineta bicolor, 246
Tan and White Color Morphs of White-throated Sparrows Differ In Their Non-song Vocal Responses to Territorial Intrusion, by Christine E. Collins and Anne M. Houtman, 842
Tawny Owl, 169
Taxonomy, 622
Temperature and Timing of Egg-Laying of European Starlings, by Theo Meijer, U. Nienaber, U. Langer and F. Trillmich, 124
Temporal Variation in Resource Use by Black-throated Gray Warblers, by John J. Keane and Michael L. Morrison, 67
Territoriality, 557
Territory defense, 842
Tessaglia-Hymes, D. L., see Hochachka, W. M., 195
Texas, 771
Thermal and Energetic Significance of Cavity Roosting in Mountain Chickadees and Juniper Titmice, by Sheldon J. Cooper, 863
Thermal microclimate, 863
refugia, 714
Thompson, David R., Kristjan Lilliendahl, Jon Solmundsson, Robert W. Furness, Susan Waldron and Richard A. Phillips, Trophic Relationships Among Six Species of Icelandic Seabirds as Determined Through Stable Isotope Analysis, 898
Thompson, Ian D., Holly A. Hogan and William A. Montevecchi, Avian Communities of Mature Balsam Fir Forests in Newfoundland: Age-Dependence and Implications for Timber Harvesting, 311
Thryomanes bewickii, 219
Théry, M., see Mercey, P. d., 907
Tieleman, B. I., see Williams, J. B., 714
Time of Day of Ovulation by Three Duck Species in Subarctic Alaska, by Daniel Esler, 422
Time-budgets of Common Murres at a Declining and Increasing Colony in Alaska, by Stephani G. Zador and John F. Piatt, 149
Tits, Warblers, and Finches: Foliage-gleaning Birds of

Neartic and Paleartic Boreal Forests, by Russell Greenberg, Vladimir Pravosudov, John Sterling, Anna Kozlenko and Vitally Kontorshchikov, 299
Tobalske, B. W., see Tobalske, C., 472
Tobalske, Claudine, and Bret W. Tobalske, Using Atlas Data To Model the Distribution of Woodpecker Species in the Jura, France, 472
Total evaporative water loss, 432
Toxostoma rufum, 859
Trade-off, 413
Translocation, 21
Tree Swallow, 246
Tremblay, Yann, and Yves Cherel, Synchronous Underwater Foraging Behavior in Penguins, 179
Trillmich, F., see Meijer, T., 124
Troglodytes, 446
aedon, 219
Trophic Relationships Among Six Species of Icelandic Seabirds as Determined Through Stable Isotope Analysis, by David R. Thompson, Kristjan Lilliendahl, Jon Solmundsson, Robert W. Furness, Susan Waldron and Richard A. Phillips, 898
Tropical birds, 347, 529
Tsipoura, Nellie, and Joanna Burger, Shorebird Diet During Spring Migration Stopover on Delaware Bay, 635
Tufted Titmouse, 408, 880
Turca, 439

U

Uria aalge, 149
Use of Mist-net Capture Rates to Monitor Annual Variation in Abundance: A Validation Study, by Mariabeth Silkey, Nadav Nur and Geoffrey R. Geupel, 288
Using Atlas Data To Model the Distribution of Woodpecker Species in the Jura, France, by Claudine Tobalske and Bret W. Tobalske, 472
Using Radio-Transmitters to Improve Estimates of Gull Predation on Common Eider Ducklings, by K. Mawhinney and A. W. Diamond, 824

V

Van Vliet, G. B., see Van Pelt, T. I., 395
Van Pelt, Thomas I., John F. Piatt and Gustaaf B. Van Vliet, Vocalizations of the Kittlitz's Murrelet, 395
Vancouver Island, 86
Vanderkist, Brett A., Xiao-Hua Xue, Richard Griffiths, Kathy Martin, Wendy Beauchamp and Tony D. Williams, Evidence of Male-Bias in Capture Samples of Marbled Murrelets From Genetic Studies in British Columbia, 398
Variation in the Onset of Incubation in a Neotropical Parrot, by J. Letitia Grenier and Steven R. Beissinger, 752
Verner, Jared, and Kathryn L. Purcell, Fluctuating Populations of House Wrens and Bewick's Wrens in Foothills of the Western Sierra Nevada of California, 219
Video surveillance, 42
Villard, M., see Robichaud, I., 262
Vocal and Behavioral Responses of Brown-headed Cowbirds to Flight Whistles From Different Dialects, by Alfred M. Dufty Jr. and Annette Hanson, 484
Vocalizations, 484, 689, 842
Vocalizations of the Kittlitz's Murrelet, by Thomas I. Van Pelt, John F. Piatt and Gustaaf B. Van Vliet, 395

W

Waldron, S., see Thompson, D. R., 898
Walters, E. L., see Miller, E. H., 86
Wandering Albatross, 360
Warblers, 299
Ward, D. H., see Ely, C. R., 390
Water economy, 714
Waterfowl, 422
Weikel, Jennifer M., and John P. Hayes, The Foraging Ecology of Cavity-Nesting Birds in Young Forests of the Northern Coast Range of Oregon, 58
Weiss, Valerie A., and Daniel A. Cristol, Plastic Color Bands Have No Detectable Short-term Effects on White-breasted Nuthatch Behavior, 884
Wells, J. V., see Hochachka, W. M., 195
Western Mediterranean, 909
Westneat, David F., a review of *Sperm Competition and Sexual Selection*, edited by T. R. Birkhead and A. P. Møller, 924
Wetland, 282, 461
Whelan, C. J., see Schmidt, K. A., 916
Whiskered Auklet, 518
White-breasted Nuthatch, 408, 880, 884
White-crowned Sparrow, 13, 288
White-throated Sparrow, 842
Whooping Crane, 664
Wijesinghe, D. P., see Kannan, R., 927
Williams, Jos. B., Heat Production and Evaporative Water Loss of Dune Larks from the Namib Desert, 432
Williams, Joseph B., B. Irene Tieleman and Mohammed Shobrak, Lizard Burrows Provide Thermal Refugia for Larks in the Arabian Desert, 714
Williams, T. D., see Vanderkist, B. A., 398
Wilson, R. R., see Cooper, R. J., 920
Wing and Primary Growth of the Wandering Albatross, by S. D. Berrow, N. Huin, R. Humpidge, A. W. A. Murray and P. A. Prince, 360
Wing Ecomorphology of Seabirds from Johnston Atoll, by Fritz Hertel and Lisa T. Ballance, 549
Winkler, D. W., see McCarty, J. P., 246
Winter, 893
Winter Ecology of the Endangered Golden-cheeked Warbler, by John H. Rappole, David I. King and Wylie C. Barrow Jr., 762
Winter habitat use, 694
Winter Wren, 446
Within-Season and Between-Year Variation in the Structure of Common Eider Broods, by Markus Öst, 598
Wolf, D. J., see Cooper, R. J., 920
Wolfenbarger, L. LaReesa, Is Red Coloration of Male Northern Cardinals Beneficial During the Nonbreeding Season?: A Test of Status Signaling, 655
Wood warbler, 76
Woodcock, 909

Work, Thierry M., J. Gregory Massey, Luanne Johnson, Steve Dougill and Paul C. Banko, Survival and Physiologic Response of Common Amakihi and Japanese White-eyes During Simulated Translocation, 21
Wrentit, 288
Wyoming, 378

X

Xue, X., see Vanderkist, B. A., 398

Y

Yasukawa, K., see Clotfelter, E. D., 105; and Clotfelter, E. D., 729
Yong, W., see Kelly, J. F., 76
Yorio, P., see Bertellotti, M., 790
Yucatán Peninsula, 14

Z

Zador, Stephani G., and John F. Piatt, Time-budgets of Common Murres at a Declining and Increasing Colony in Alaska, 149
Zenitsky, G. D., see Cooper, R. J., 920
Zink, R. M., see Klicka, J., 577
Zonotrichia albicollis, 842
leucophrys, 288
leucophrys oriantha, 133
Zosterops japonicus, 21